



Shortcut X Base

Product Environmental Profile is an environmental declaration according to the objectives of ISO 14021. Precise, accurate, verifiable and relevant information on sustainability attributes of Shortcut X Base.

Shortcut X Base chair and stool are the latest additions to the Shortcut collection, featuring the signature flexible shell on a wire frame. Its clean lines and modern aesthetic bring style and elegance to the home and office. An optional seat cushion adds comfort for short sits and abbreviated elbow rests stay out of the way so the user can pull close to their worksurface.

Work happens fast and today's workplace is more agile and nimble than ever before. We think on our feet, multitask and juggle projects in the pursuit of productivity. And when it's time to get to work, we don't want anything to stand in our way. So don't waste time looking for ways to connect — Shortcut keeps pace with your world and brings people together for impromptu meetings and organic collaboration.

The model chosen for analysis from the Shortcut range is reference # TS31204A. Standard features for Shortcut include:

- Elbow rest
- Affordable design element
- Flexible shell
- cushion

Environmental Overview

Final Assembly Location

Final assembly of Shortcut X Base is in Zeeland, Michigan, USA for Steelcase for the NA (North America) market.

Life Cycle Performance ▶

Steelcase considers each phase of the life cycle: from materials extraction, production, transport, use and reuse, through the end of its life.

Materials ▶

Materials Composition

A break down of the basic materials in Shortcut X Base.

Materials Chemistry

Steelcase's materials chemistry practice aims to design products with materials that support human and environmental health, throughout all phases of the life cycle.

Recycled Materials and Recyclability

Shortcut X Base contains 17.5% recycled materials, by weight (7.5% pre-consumer + 10.0% post-consumer).

At the end of its useful life, Shortcut X Base is 100.0% recyclable by weight.

Certifications and Labels ▶

The environmental and social performance of Shortcut X Base is communicated through the following voluntary labels/certifications:

- SCS Indoor Advantage™ Gold
- BIFMA level® 2
- Cradle to Cradle Certified™

LEED Contribution ▶

Shortcut X Base may contribute in the following areas:

- Recycled content
- Materials reuse
- Regional materials
- Low-emitting materials
- Interiors life-cycle impact reduction
- Building product disclosure and optimization - material ingredients
- Daylight and views
- Building product disclosure and optimization - sourcing of raw materials
- Quality Views
- Construction & Demolition Waste Planning & Management
- Environmentally Preferable finishes and furnishings
- Social equity in the supply chain

Life Cycle Performance

Steelcase considers each phase of the life cycle: from materials extraction, production, transport, use and reuse, through the end of its life.

Materials

This phase includes raw materials extraction and transformation into material ready to be used.

- **Shortcut X Base contains 17.5% recycled materials**, by weight (7.5% pre-consumer + 10.0% post-consumer).
- **Materials chemistry assessment completed** for this product.
- **CFC, HCFC and HFC are not used** as blowing agents for PU foam.
- **Low formaldehyde & VOC emissions** / concentration according to ANSI/BIFMA X7.1 and ANSI/BIFMA e.3 VOC's of concern.
- **Eco-labelled** Cradle to Cradle Certified™ and rapidly renewable wool textiles **available to specify** with product.
- **Packaged with 40%-60% recycled cardboard.**
- **Shortcut X Base may meet the Healthier Interiors goal of the Safer Chemical Challenge**, depending on options. Please visit Healthier Hospitals for a complete list of Steelcase products that may contribute to the Safer Chemicals Challenge.

Production

This phase comprises all production and assembly processes taking place at Steelcase or at their suppliers and sub-suppliers.

- Final assembly of Shortcut X Base is in Zeeland, Michigan, USA for Steelcase for the NA (North America) market.

Transport

This phase includes downstream transports.

- Lightweight and delivered stacked.
- Made in North America

Use

During the use phase of the product - the longest phase of the life cycle - no significant environmental impacts occur.

- **Product meets ANSI/BIFMA Standards M7.1/X7.1** for low- VOC emissions to indoor air quality - SCS Indoor Advantage™ Gold.
- Cleaning instructions available.
- Maintenance information available upon request.

End of Use

Any product can become a resource itself, or be responsibly disposed of in different ways.

- **Designed to enable responsible end of use strategies** - re-selling, refurbishing, charitable donation or recycling.
- **100% recyclable by weight**, according to the current waste disposal schemes.*
- **100% recyclable packaging.**
- **Designed for quick and easy disassembly of materials** - with no permanent assembly.
- **Primary plastic parts clearly labelled for easy sorting and effective recycling**, according to ISO 11469.
- **Disassembly and recycling directions available upon request**, for a representative configuration.
- **The Steelcase Phase 2 Program provides end-of-use, end-of-need and end-of-life disposition solutions that align with your Corporate Social Responsibility Goals.** For more information, and to see if this service is available in your area, please contact your Steelcase sales representative for more information.

*In locations where recycling is available. Steelcase offers services to assist customers with end-of-use options including resale, refurbishment, charitable donation, and recycling.

Materials

Shortcut X Base materials composition is listed below.*



METALS

| | kg | lb | % |
|-------|------|-----|------|
| Steel | 4.29 | 9.5 | 53.9 |



PLASTICS

| | kg | lb | % |
|--------------------|------|-----|------|
| Polypropylene (PP) | 3.11 | 6.9 | 39.0 |
| Polyester (PET) | 0.15 | 0.3 | 1.9 |
| Nylon 66 (PA66) | <0.1 | 0.1 | 0.5 |
| Polycarbonate (PC) | <0.1 | 0.1 | 0.4 |



OTHER MATERIALS

| | kg | lb | % |
|-------------------|------|-----|-----|
| Polyurethane foam | 0.34 | 0.7 | 4.3 |

| | | | |
|---------------------|-----|------|-------|
| TOTAL WEIGHT | 8.0 | 17.5 | 100.0 |
|---------------------|-----|------|-------|

*The list of materials does not contain all materials used in the product (adhesives, coatings, residuals, etc.).

Materials Chemistry

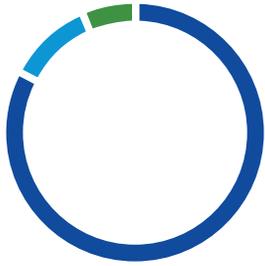
Steelcase's goal in its materials chemistry practice is to design products with materials that have been evaluated or assessed for several human and environmental health criteria – all in an effort to understand and optimize the products throughout their life cycle.

At least 75% of the materials in this product have been assessed and rated against 24 human health and environmental criteria.

Recycled Materials and Recyclability

Recycled materials are determined by weight and defined in accordance with the ISO 14021. They may include pre- and post-consumer materials:

- Pre-consumer materials (or post-industrial recycled materials) are materials diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.
- Post-consumer materials are materials generated by households or by commercial, industrial and institutional facilities in their role as end-users of the final product, which can no longer be used for its intended purpose. This includes returns of material from the distribution chain.



SHORTCUT X BASE

| | kg | lb | % |
|--------------------------------|------------|------------|-------------|
| Pre-consumer recycled content | 0.6 | 1.3 | 7.5 |
| Post-consumer recycled content | 0.8 | 1.8 | 10.0 |
| Total recycled content | 1.4 | 3.1 | 17.5 |

- Pre-consumer - Recycled content
- Post-consumer - Recycled content
- Virgin material

Calculations of recycled materials are based on data provided by professional organizations, suppliers and other available information. Recycled content figures are based off of product weight only, and exclude packaging for evaluation to LEED contribution and other purposes. This data may include industry averages, ranges or other broadly based information. Steelcase makes conservative assumptions when compiling this information to provide the most accurate recycled content calculations possible but variability in market conditions or manufacturing processes may result in higher or lower content. This document will be reviewed and updated periodically and is subject to change without notice.

Recyclability

Steelcase considers a material recyclable if it can be effectively collected, sorted, processed, and converted into raw materials to be used in the production of new products.* Recyclability calculation does not include packaging.



100%

According to the available waste management infrastructures, we estimate that 100% is recyclable.

*Excludes packaging. To be compliant with applicable regulations, Steelcase calculations are based on the materials having physical properties that allow recycling, our evaluation of the ability to disassemble the products and the actual availability of recycling services in the markets where the products are sold.

Certificates

To show continuous improvements, Steelcase communicates the environmental and social performance of its products through voluntary labels and declarations.

ON THE PRODUCTS

BIFMA level®

This product is level® 2 certified. BIFMA level® is sustainability certification program for furniture. This certification program assesses a products impact to materials, energy & atmosphere, human & ecosystem health, and social responsibility.

Cradle to Cradle Certified™

This product is Cradle to Cradle™ certified Bronze⁽²⁾ which assesses and rates products for material health, material reutilization, renewable energy and carbon management, water stewardship, and social fairness.

SCS Indoor Advantage™ Gold

This product is SCS Indoor Advantage™ Gold certified⁽¹⁾ according to the indoor air quality emissions requirements defined by the ANSI/ BIFMA M7.1- 2011.

ON THE MATERIALS

Cradle to Cradle Certified™

A selection of Cradle to Cradle Certified™ textiles are available. Cradle to Cradle Certified™⁽²⁾ products are evaluated for material health, material reutilization, renewable energy and carbon management, water stewardship, and social fairness.

⁽¹⁾ Indoor Advantage™ and Indoor Advantage™ Gold are trademarks of Scientific Certification Systems.

⁽²⁾ Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

LEED V3 – 2009

LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best-in-class building strategies and practices. Shortcut X Base may contribute to a project's pursuit of LEED certification across the three rating systems:

- LEED-ID+C - Interior Design & Construction 2009 (formerly LEED-CI)
- LEED-BD+C - Building Design & Construction 2009 (formerly LEED-NC, LEED-Core & Shell & LEED-Schools)
- LEED-O+M - Operations & Maintenance (formerly LEED-EB)

| CREDITS | RATING SYSTEM | | | POTENTIAL CONTRIBUTION* |
|-------------------------------------|---------------|--------------------------------------|--|---|
| | ID+C | BD+C | O+M | |
| Materials & Resources | | | | |
| Recycled content | MRc4 | MRc4 Healthcare: MRc5 Option 3 | MRc2.2: Sustainable purchasing- Furniture | Shortcut X Base contributes to the project recycled content criteria: post-consumer (10.0)% + ½ pre-consumer (7.5)% = 13.8%. |
| Materials reuse | MRc3.2 | Healthcare: MRc5 Option 3 | | If chosen for reuse, this product can contribute to the 30% valuation of the furniture & furnishings budget |
| Regional materials | MRc5 | Healthcare: MRc5 Option 3 | | Shortcut X Base is assembled in Zeeland, Michigan, USA for NA orders. Projects <500 miles (800 km) from this location qualify. |
| Indoor Environmental Quality | | | | |
| Low emitting materials | EQc4.5 | Healthcare: MRc5 Option 2 | N/A | Shortcut X Base is SCS Indoor Advantage™ Gold (depending on options) certified for indoor air quality in NA. |
| Daylight and views | EQc8.1 & 8.2 | EQc8.1 & 8.2** | EQc2.4 | Steelcase offers a range of products and application thought starters to assist customers in achieving these credits. |

*For Potential Contribution: These are the probable contributions; exact contributions will be dependent on the LEED rating system and the specific product.

**For LEED BD+C: New Construction, these standards do not currently apply to furniture in the IEQ credit; however, the USGBC has allowed equivalent credit for furniture / furnishings when submitted as an Innovation in Design credit.

LEED V4

LEED is a rating system that drives integrated design thinking as it relates to various aspects of green buildings. Shortcut X Base can contribute to a project's pursuit of LEED Certification across the three rating systems:

- LEED-ID+C - Interior Design & Construction
- LEED-BD+C - Building Design & Construction
- LEED-O+M - Operations & Maintenance

| CREDITS | RATING SYSTEM | | | POTENTIAL CONTRIBUTION* |
|--|--|--|--|---|
| | ID+C | BD+C | O+M | |
| Materials & Resources | | | | |
| Interiors life-cycle impact reduction | Option 2: Furniture Reuse | N/A | | Steelcase products are designed to be long lasting and durable-- often making reuse a feasible option, depending on project needs and desirability. |
| Interiors life-cycle impact reduction | Option 3: Design for flexibility | N/A | | If chosen for reuse, this product can contribute to the 30% valuation of the furniture & furnishings budget. |
| Building product disclosure and optimization - sourcing of raw materials | Option 2: Leadership extraction practices | Option 2: Leadership extraction practices | Purchasing - facility maintenance and renovation | Extended Producer Responsibility - Steelcase offers different end of use / end of life programs for different markets, to reuse, resell, refurbish, donate, or recycle the mix of existing assets – all in an effort to divert materials from the landfill (See notes below). |
| | | Healthcare - Medical furniture & furnishings | Option 2: furniture | Bio-based materials - Steelcase offers select textile and surface material options that may contribute to this credit. |
| | | Option 3: Multi-attribute assessment | | Wood products - Steelcase offers FSC™ certified wood as an option on select products, which contributes to this option. |
| | | | | Materials Reuse - If chosen for reuse, this product can contribute. |
| | | | | Recycled content - (10.0%) post-consumer + ½ pre-consumer (7.5%) = 13.8%. |
| Building product disclosure and optimization - material ingredients | Option 1: Material Ingredient Reporting | Option 1: Material Ingredient Reporting | Purchasing - facility maintenance and renovation | Shortcut X Base is Cradle to Cradle™ certified Bronze, which will contribute to this credit. |
| | | Furniture and medical furnishings | Option 2: Furniture | |
| | | Option 1: Minimal chemical content | | |
| Construction & Demolition Waste Planning & Management | Required | Required | N/A | Steelcase uses several innovative packaging initiatives to minimize our waste impact (see transport section). These efforts may help to contribute, in part, towards achieving this prerequisite or credit. |

*For Potential Contribution: These are the probable contributions; exact contributions will be dependent on the LEED rating system and the specific product.

| CREDITS | RATING SYSTEM | | | POTENTIAL CONTRIBUTION* |
|-------------------------------------|--|---|---|---|
| | ID+C | BD+C | O+M | |
| Indoor Environmental Quality | | | | |
| Low emitting materials | Option 1: Product Category Calculations or Option 2: Budget Calculation Method | Required Option 1: Product Category Calculations or Option 2: Budget Calculation Method Furniture and medical furnishings Option 2: testing and modeling of chemical content | Purchasing - facility maintenance and renovation Option 2: Furniture | Shortcut X Base is SCS Indoor Advantage™ Gold certified for indoor air quality in NA. |
| Quality views | Credit | Credit | Daylight and quality views Option 2: Quality views | Steelcase offers a range of products and application thought starters, though several other factors play into achieving this credit, beyond the scope of furniture. |

Other Potential LEED V4 Contributions

| Pilot Credits: The following credits are potential contribution areas for Steelcase products and applications | | | | |
|--|----------|----------|-----|---|
| Environmentally preferable finishes and furnishings | MR Pilot | MR Pilot | N/A | Shortcut X Base is level® 2 certified, which contributes to this pilot credit. |
| Social equity in the supply chain | N/A | MR Pilot | N/A | Shortcut X Base is level® 2 certified, which contributes to this pilot credit which demonstrates compliance to ANSI/BIFMA e3 Sustainability Standard – Social Responsibility sections 8.7.2.1 and 8.7.2.2 |

*For Potential Contribution: These are the probable contributions; exact contributions will be dependent on the LEED rating system and the specific product

Refer to www.usgbc.org for LEED Program details.

Steelcase sustainability related actions and results are communicated annually in the **Corporate Sustainability Report**. [▶](#)

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